

Figure 1

ggcgcccgcc cggcccgccg cggcccgccg gctgctccc ttctctctc cctctctttc tcccttgcgc tegtctctc gctctctc ggcgcatggg 100

ccccgcgcg gggcccgccg cctggggccg cctgggctcc ggggtccct agggccgggc gtggcgggg cagcccgcc tgaagcagcc tetgtaccc 200

accaccacca ccaccagggc cggcggggc ggtgccccg agggacgggg cctatggcgg tggcgATGGG GGCCGTCCGG ATCGGCCCG GCCTGGCGCT 300
M G A U A I A P G L A L

GCTGCTCTGC TGCCCGGTGC TCAGCTCCGC GTACGCGCTG GTGGATGCAG ATGACGTGAT GACCAAGAG GAGCAGATCT TCCTGCTGCA CCGCGCCAG 400
L L C C P U L S S A V A L U D A D D U M T K E E Q I F L L H R A Q

GCCAGTGC AGAGCGGCT CAAAGAGTC CTGAGAGGC CAGCTGACAT AATGGAATCA GACAAAGGAT GGGCTTCTGC ATCCACATCA GGGAGCCTA 500
A Q C Q K R L K E U L Q R P A D I M E S D K G W A S A S T S G K P K

AGAAAGAGAA GGCATCTGG AGCTCTACC CTGAGTCCGA GGAGGACAG GAGGTGCCA CTGGCAGCAG GCACCGAGGG CCGCCCTGCC TGCCCGAGTG 600
K E K A S G K L Y P E S E E D K E U P T G S R H A G R P C L P E W

GGACACATC CTITGCTGG CGCTGGGGG ACCAGGTGAG GTGGTGCTG TGCCCTGTCC CGACTACAT TATGACTTCA ATCACAAGG CCATGCCTAC 700
D H I L C W P L G A P G E U U A U P C P D Y I Y D F N H K G H A Y

CGTCGCTGTG ACCGCAATGG CAGCTGGGAG CTGGTGCTG GACACACCG GACGTGGGCC AACTACAGCG AGTGCTCAR GTTCTGACC AACGAGCTC 800
R A C D R N G S W E L U P G H N R T W A N Y S E C U K F L T N E T R

GTGACGCGA GGTGTTTGC CGCTGGGCA TGATCTACAC CGTGGGCTAC TCCGTGTCG TGGCTCCCT CACCGTGGC GTGCTATCC TGGCTACTT 900
E R E U F D A L G M I Y T U G Y S U S L A S L T U A U L I L A Y F

CAGCGGCTG CAGTGCACG GCACTACAT CCACTGGAC CIGTCTGT CTITCATGCT TCGCGCGTG AGCATCTCG TCAGGAGCG GTTGTCTAT 1000
R A L H C T R N Y I H M H L F L S F M L R A U S I F U K D A U L Y

TCGGGCGCA CGCTGACGA GGCGAGCGC CTCACGAGG AAGAGCTGG CGCATGCGC CAGGACCCC CGCGGCCAC CGCGCCGCC GGCTACGCG 1100
S G A T L D E A E R L T E E E L R A I A Q A P P P P T A A A G Y A G

GCTGACGGT AGCTGTACC TTCTTCTTT ATTTCTTGG CACCACTAC TACTGGATC TGGTGGGCG GTGTACCTG CATAGTCTCA TCTCATGG 1200
C R U A U T F F L Y F L A T N Y Y W I L U E G L Y L H S L I F M A

CTTCTTCTA GAGAGAGT ACCTGTGGG CTTCAGGTC TCGGCTGGG GTTGTCCCG CGCTTTCG GTGTGTGG TCAGGCTGAG AGCCACCTG 1300
F F S E K K Y L W G F T U F G W G L P A U F U A U W U S U R A T L

GGCAACAGG GGTGCTGGG CTGAGCTCC GGGACACAG AGTGATC AT CAGGTGCCC ATCTGACCT CTATGTGCT CAATTCATC TTGTTCATC 1400
A N T G C W D L S S G N K K W I I Q U P I L A S I U L N F I L F I N

ACATGCTCG GTGTGCTCC ACDAAGCTG GGGAGACCA TGCCGCGCG GTGTACACG GGCAGCAGT CCGGAGCTG CTCAATCCA CACTGGTGT 1500
I U R U L A T K L A E T N A G A C D T A Q Q Y A K L L K S T L U L

CTGCGGCTC TTTGGGCTC ACTACATCT CTTCATGGC AGCCCTTACA CCGAGTCTC AGGGACGCTC TGGCAGTCC AGATGCACTA CAGATGCTC 1600
M P L F G U H V I U F M A T P Y T E U S G T L W Q U Q M H Y E M L

TTCACTCTT TCGGGGAT TTTTGTCC ATCATATCT GTTCTGCA TGGCGAGTA CAGGCGGAG TCAAGAAATC CTGAGCCGC TGGACACTGG 1700
F M S F Q G F F U A I I Y C F C N G E U Q A E I K K S W S R W T L A

CCCTGGACTT CAGCGCAGG GCGCGAGTG GAGGAGCAG TTACAGCTAC GCGCGATGG TGTCTACAC GAGCGTGACC AACGTAGGC CCGCGCGGG 1800
L D F K R K A R S G S S S Y S Y G P M U S H T S U T N U G P A R A G

ACTTGGCTG CCGCTCAGC CCGCGCTGT GCGCGCGCT GCGGCCACCA CACCGCCAC CACCAACGGC CACCCCCGA TCCGCGGCA CACCAAGCA 1900
L G L P L S P A L L P A A A A T T T A T T N G H P P I P G H T K P

GGGGCCCCG CCGTCCGCG CACACCACT GCCACGCTG CTCCAGGA CGATGGGTC CTCACGGCT CTGCTGGG GCTGACGAG GAGGCTCCG 2000
G A P T L P A T P P A T A A P K D D G F L N G S C S G L D E E A S A

CGCGGAGCG GCTCCCGCC CTGCTGAGG AGGAGTGGG GACGGTATG TGATcgggg cctgtgccg ggttggact gtggacataa gggcgacag 2100
P E R P P A L L Q E E W E T U M

acggaccaag agacaggcgg ttggacagt gccactcag ggttggggt gggagacaa aacaaaaaa aaaaaaa 2177

Figure 2

dPTH1	ATGGGGCCG	CCCGGATCGC	CCCGGCTG	GCCTGCTG	CTCTGCTGCC	GTGCTCAGC	TCCGCTAG	CGCTG	75	
rPTH1	ATGGGGCCG	CCCGGATCGC	CCCGGCTG	GCCTGCTG	CTCTGCTGCC	GTGCTCAGC	TCCGCTAG	CGCTG	75	
mPTH1	ATGGGGCCG	CCCGGATCGC	CCCGGCTG	GCCTGCTG	CTCTGCTGCC	GTGCTCAGC	TCCGCTAG	CGCTG	75	
hPTH1	ATGGGGCCG	CCCGGATCGC	CCCGGCTG	GCCTGCTG	CTCTGCTGCC	GTGCTCAGC	TCCGCTAG	CGCTG	75	
dPTH1	GTGGATGCAG	ATGAGTGCAT	TACCAAAGAG	GAACAGATT	TCTGCTGCA	CCGTGCCAG	GCACAATGTG	ACAAG	150	
rPTH1	GTGGATGCAG	ATGAGTGCAT	TACCAAAGAG	GAACAGATT	TCTGCTGCA	CCGTGCCAG	GCACAATGTG	ACAAG	150	
mPTH1	GTGGATGCAG	ATGAGTGCAT	TACCAAAGAG	GAACAGATT	TCTGCTGCA	CCGTGCCAG	GCACAATGTG	ACAAG	150	
hPTH1	GTGGATGCAG	ATGAGTGCAT	TACCAAAGAG	GAACAGATT	TCTGCTGCA	CCGTGCCAG	GCACAATGTG	AAAAA	150	
dPTH1	CGGCTCAAAG	AAGTCTGCA	GAGGCAGGT	GACATAATGG	AATCAGACAA	GGGATGGACA	CTGCTGCA	CACTCA	225	
rPTH1	CTGCTCAAAG	AAGTCTGCA	GACAGCAGCC	AACATAATGG	AGTCAGACAA	GGGATGGACA	CTGCTGCA	CACTCA	225	
mPTH1	CTGCTCAAAG	AAGTCTGCA	GACAGCAGCC	AACATAATGG	AGTCAGACAA	GGGATGGACA	CTGCTGCA	CACTCA	225	
hPTH1	CGGCTCAAAG	AAGTCTGCA	GAGGCAGCC	AGCATAATGG	AATCAGACAA	GGGATGGACA	CTGCTGCA	CACTCA	225	
dPTH1	GGGAAGCCTA	AGAAAGATAA	GGCATCTGGG	AAGTCTACC	CTGAGTCTAA	AGAGACAAG	GATGTGCCCA	CTGGC	300	
rPTH1	GGGAAGCCTA	AGAAAGATAA	GGCATCTGGG	AAGTCTACC	CTGAGTCTAA	AGAGACAAG	GATGTGCCCA	CTGGC	300	
mPTH1	GGGAAGCCTA	AGAAAGATAA	GGCATCTGGG	AAGTCTACC	CTGAGTCTAA	AGAGACAAG	GATGTGCCCA	CTGGC	300	
hPTH1	GGGAAGCCTA	AGAAAGATAA	GGCATCTGGG	AAGTCTACC	CTGAGTCTAA	AGAGACAAG	GATGTGCCCA	CTGGC	300	
dPTH1	AGCAGGCCAC	GAGGGCCGCC	CTGCTGCGC	GAGTGGGAC	ACATCTTTG	CTGGCCGCTG	GGGGCACCAG	GTGAG	375	
rPTH1	AGCAGGCCAC	GAGGGCCGCC	CTGCTGCGC	GAGTGGGAC	ACATCTTTG	CTGGCCGCTG	GGGGCACCAG	GTGAG	375	
mPTH1	AGCAGGCCAC	GAGGGCCGCC	CTGCTGCGC	GAGTGGGAC	ACATCTTTG	CTGGCCGCTG	GGGGCACCAG	GTGAG	375	
hPTH1	AGCAGGCCAC	GAGGGCCGCC	CTGCTGCGC	GAGTGGGAC	ACATCTTTG	CTGGCCGCTG	GGGGCACCAG	GTGAG	375	
dPTH1	GTGGTGGGTG	TGCTGTGTC	CGATTACATT	TATGACTTCA	ATCACAAGG	CCATGCCTAC	GTGCTGTG	ACCGC	450	
rPTH1	GTGGTGGGTG	TGCTGTGTC	CGATTACATT	TATGACTTCA	ATCACAAGG	CCATGCCTAC	GTGCTGTG	ACCGC	450	
mPTH1	GTGGTGGGTG	TGCTGTGTC	CGATTACATT	TATGACTTCA	ATCACAAGG	CCATGCCTAC	GTGCTGTG	ACCGC	450	
hPTH1	GTGGTGGGTG	TGCTGTGTC	CGATTACATT	TATGACTTCA	ATCACAAGG	CCATGCCTAC	GTGCTGTG	ACCGC	450	
dPTH1	AATGGCAGCT	GGGAGCTGGT	CCCTGGGCAC	AACGGACGT	GGGCCAACTA	CAGCGAGTGT	GTCAAATTTC	TAACC	525	
rPTH1	AATGGCAGCT	GGGAGCTGGT	CCCTGGGCAC	AACGGACGT	GGGCCAACTA	CAGCGAGTGT	GTCAAATTTC	TAACC	525	
mPTH1	AATGGCAGCT	GGGAGCTGGT	CCCTGGGCAC	AACGGACGT	GGGCCAACTA	CAGCGAGTGT	GTCAAATTTC	TAACC	525	
hPTH1	AATGGCAGCT	GGGAGCTGGT	CCCTGGGCAC	AACGGACGT	GGGCCAACTA	CAGCGAGTGT	GTCAAATTTC	TAACC	525	
dPTH1	AATGAGACTC	GTGAACGGGA	GGTATTTGAC	CGCCTGGCA	TGATATACAC	CGTGGGTAT	TCCATGTCTC	TGGCC	600	
rPTH1	AATGAGACTC	GTGAACGGGA	GGTATTTGAC	CGCCTGGCA	TGATATACAC	CGTGGGTAT	TCCATGTCTC	TGGCC	600	
mPTH1	AATGAGACTC	GTGAACGGGA	GGTATTTGAC	CGCCTGGCA	TGATATACAC	CGTGGGTAT	TCCATGTCTC	TGGCC	600	
hPTH1	AATGAGACTC	GTGAACGGGA	GGTATTTGAC	CGCCTGGCA	TGATATACAC	CGTGGGTAT	TCCATGTCTC	TGGCC	600	
dPTH1	TCCCTCAGGG	TGGTGTGCT	CATCCTAGCC	TATTTAGGC	GGCTGCACTG	CACGCGAAC	TACATCCACA	TGCAC	675	
rPTH1	TCCCTCAGGG	TGGTGTGCT	CATCCTAGCC	TATTTAGGC	GGCTGCACTG	CACGCGAAC	TACATCCACA	TGCAC	675	
mPTH1	TCCCTCAGGG	TGGTGTGCT	CATCCTAGCC	TATTTAGGC	GGCTGCACTG	CACGCGAAC	TACATCCACA	TGCAC	675	
hPTH1	TCCCTCAGGG	TGGTGTGCT	CATCCTAGCC	TATTTAGGC	GGCTGCACTG	CACGCGAAC	TACATCCACA	TGCAC	675	
dPTH1	CTGTTCTGT	CTTTATGCT	CGCGCCGG	GAGCATCTTCG	TAAAGGACGC	GTGCTCTAC	CTGGGCTCA	CGCTC	750	
rPTH1	ATGTTCTGT	CTTTATGCT	CGCGCCGG	GAGCATCTTCG	TAAAGGACGC	GTGCTCTAC	CTGGGCTCA	CGCTC	750	
mPTH1	ATGTTCTGT	CTTTATGCT	CGCGCCGG	GAGCATCTTCG	TAAAGGACGC	GTGCTCTAC	CTGGGCTCA	CGCTC	750	
hPTH1	CTGTTCTGT	CTTTATGCT	CGCGCCGG	GAGCATCTTCG	TAAAGGACGC	GTGCTCTAC	CTGGGCTCA	CGCTT	750	
dPTH1	GATGAGGGGG	AGCGCCTCAC	AGAGGAAGAG	TTGCGCGCCA	TCGCGCAGG	ACCCCCGCCG	CCCACCGCGG	CCGCC	825	
rPTH1	GATGAGGGGG	AGCGCCTCAC	AGAGGAAGAG	TTGCGCATCA	TCGCGCAGG	-----	-----TGCCACCG	CCGCC	812	
mPTH1	GATGAGGGGG	AGCGCCTCAC	AGAGGAAGAG	TTGCGCATCA	TCGCGCAGG	-----	-----TGCCACCG	CCGCC	812	
hPTH1	GATGAGGGGG	AGCGCCTCAC	AGAGGAAGAG	TTGCGCGCCA	TCGCGCAGG	CCCCCGGCCG	CCTGCCACCG	CCGCC	824	
dPTH1	GGC-----	-----	TACGGGGCTG	CAGGGTAGGT	GTGACCTTCT	TCCTTTACT	TTTCTGGG	ACC AACTA	884	
rPTH1	GGCCGCTGCC	GGCGTAGGG	TACGGGGCTG	CAGGGTAGGG	GTGACCTTCT	TCCTTTACT	TTTCTGGG	ACC AACTA	887	
mPTH1	CGCCGCTGCC	GGCGTTGGT	TACGGGGCTG	CAGGGTAGGC	GTGACCTTCT	TCCTTTACT	TTTCTGGG	ACC AACTA	887	
hPTH1	-----TGCC	-----GGG	TACGGGGCTG	CAGGGTAGGT	GTGACCTTCT	TCCTTTACT	TTTCTGGG	ACC AACTA	887	
dPTH1	CTACTGGATT	CTGGTGGAGG	GCTGTAACT	CTCAATAG	CTC	ATCTTCATGG	CCTTTTCTC	AGAGAAGAAG	TACT	959
rPTH1	CTACTGGATT	CTGGTGGAGG	GCTGTAACT	CTCAATAG	CTC	ATCTTCATGG	CCTTTTCTC	AGAGAAGAAG	TACT	962
mPTH1	CTACTGGATT	CTGGTGGAGG	GCTGTAACT	CTCAATAG	CTC	ATCTTCATGG	CCTTTTCTC	AGAGAAGAAG	TACT	962
hPTH1	CTACTGGATT	CTGGTGGAGG	GCTGTAACT	CTCAATAG	CTC	ATCTTCATGG	CCTTTTCTC	AGAGAAGAAG	TACT	962

Figure 2 con't

dPTH1	GTGGGGCTTC ACCGCTCTTG GCTGGGGTCT GCCGGGCTC TTCGTGGCTG TGTGGGTGAG GTAGAGGC ACCCT	1034
rPTH1	GTGGGGCTTC ACCATCTTG GCTGGGGTCT ACCGGGCTC TTCGTGGCTG TGTGGGTGAG GTAGAGGA ACCCT	1037
mPTH1	GTGGGGCTTC ACCATCTTG GCTGGGGTCT GCCGGGCTC TTCGTGGCTG TGTGGGTGAG GTAGAGGA ACCCT	1037
hPTH1	GTGGGGCTTC ACCGCTCTTG GCTGGGGTCT GCCGGGCTC TTCGTGGCTG TGTGGGTGAG GTAGAGGT ACCCT	1037
dPTH1	GGCCAACAC GGGTGCTGGG ACTTGAGCTC GGGGACAAAG AAGTGGATCA TCCAGGTGCC CATCCTGGGC TCTAT	1109
rPTH1	GGCCAACACT GGGTGCTGGG ACTTGAGCTC GGGGACAAAG AAGTGGATCA TCCAGGTGCC CATCCTGGGA TCTGT	1112
mPTH1	GGCCAACACT GGGTGCTGGG ACTTGAGCTC TGGGACAAAG AAGTGGATCA TCCAGGTGCC CATCCTGGGA TCTGT	1112
hPTH1	GGCCAACAC GGGTGCTGGG ACTTGAGCTC GGGGACAAA AAGTGGATCA TCCAGGTGCC CATCCTGGGC TCTAT	1112
dPTH1	TGTGCTCAAC TTCATCTT TATCAACAT CTTCCGGGTG CTGCCAQA AGCTTCGGGA GACCAATGCG GGGCG	1184
rPTH1	TGTGCTCAAC TTCATCTT TATCAACAT CATCCGGGTG CTGCCACTA AGCTTCGGGA GACCAATGCG GGGCG	1187
mPTH1	TGTGCTCAAC TTCATCTT TATCAACAT CATCCGGGTG CTGCCACTA AGCTTCGGGA GACCAATGCG GGGCG	1187
hPTH1	TGTGCTCAAC TTCATCTT TATCAACAT CTTCCGGGTG CTGCCAQA AGCTTCGGGA GACCAATGCG GGGCG	1187
dPTH1	GTGTGACAGG GGCAGCAGT ACCGGAAGCT GCTCAATCC ACCTGGTGC TCATGCCCT CTTTGGGTGTC CACTA	1259
rPTH1	GTGTGACACG AGGCAGCAGT ACCGGAAGCT GCTCAGGTCC ACCTGGTGC TCATGCCCT CTTTGGGTGTC CACTA	1262
mPTH1	GTGTGACACG AGGCAGCAGT ACCGGAAGCT GCTCAGGTCC ACCTGGTGC TCATGCCCT CTTTGGGTGTC CACTA	1262
hPTH1	GTGTGACACA GGCAGCAGT ACCGGAAGCT GCTCAATCC ACCTGGTGC TCATGCCCT CTTTGGGTGTC CACTA	1262
dPTH1	CATCGTCTTC ATGGCCACGC CBTACACCGA GGTCTCAGGG ACCTGTGGC AAGTCCAGAT GCACTATGAG ATGCT	1334
rPTH1	CACCGTCTTC ATGGCCCTTG CBTACACCGA GGTCTCAGGG ACATGTGGC AATCCAGAT GCACTATGAG ATGCT	1337
mPTH1	CACCGTCTTC ATGGCCCTTG CBTACACCGA GGTCTCAGGG ACATGTGGC AATCCAGAT GCACTATGAG ATGCT	1337
hPTH1	CATTGCTTC ATGGCCACAC CBTACACCGA GGTCTCAGGG ACCTGTGGC AAGTCCAGAT GCACTATGAG ATGCT	1337
dPTH1	CTTCAACTCC TTCCAGGGAT TTTTGTGCG CATCATATAC TGTCTGCA ATGGGAGGT ACAGGAGAG ATTAA	1409
rPTH1	CTTCAACTCC TTCCAGGGAT TTTTGTGCG CATCATATAC TGTCTGCA ATGGGAGGT ACAGGAGAG ATTAA	1412
mPTH1	CTTCAACTCC TTCCAGGGAT TTTTGTGCG CATCATATAC TGTCTGCA ATGGGAGGT ACAGGAGAG ATTAA	1412
hPTH1	CTTCAACTCC TTCCAGGGAT TTTTGTGCG CATCATATAC TGTCTGCA ATGGGAGGT ACAGGAGAG ATTAA	1412
dPTH1	GAAATCTGG AGCCGCTGGA CACTGGCCT GGACTTCAAG CGAAAGGC GAGTGGGAG TAGCAGTAT AGCTA	1484
rPTH1	GAAATCTGG AGCCGCTGGA CACTGGCCT GGACTTCAAG CGAAAGGC GAGTGGGAG TAGCAGTAT AGCTA	1487
mPTH1	GAAATCTGG AGCCGCTGGA CACTGGCCT GGACTTCAAG CGAAAGGC GAGTGGGAG TAGCAGTAT AGCTA	1487
hPTH1	GAAATCTGG AGCCGCTGGA CACTGGCCT GGACTTCAAG CGAAAGGC GAGTGGGAG TAGCAGTAT AGCTA	1487
dPTH1	GGGCCAATG GTGTCTCACA CAGTGTGAC CAATGTGGG CCCCCTGAG GACTCAGCCT CCCCCTAGC CCCC	1559
rPTH1	TGGCCCAATG GTGTCTCACA CAGTGTGAC CAATGTGGG CCCCCTGAG GACTCAGCCT CCCCCTAGC CCCC	1562
mPTH1	TGGCCCAATG GTGTCTCACA CAGTGTGAC CAATGTGGG CCCCCTGAG GACTCAGCCT CCCCCTAGC CCCC	1562
hPTH1	GGGCCAATG GTGTCTCACA CAGTGTGAC CAATGTGGG CCCCCTGAG GACTCAGCCT CCCCCTAGC CCCC	1562
dPTH1	CCTGCTGCC GCCGCTGCC CCACCACCAC CGCCACACC AAGGCCAQC CCGGATGCC GGGCCACACC AAGCC	1634
rPTH1	CCT--GCT-----CC TGCCACACC AATGGCCACT CCGAGCTGCC TGGCCATGCC AAGCC	1616
mPTH1	CCT--GCT-----CC TGCCACACC AATGGCCACT CCGAGCTGCC TGGCCATGCC AAGCC	1616
hPTH1	CCTACTGCC-----AC TGCCACACC AAGGCCAQC CCGGATGCC TGGCCATGCC AAGCC	1619
dPTH1	AGGGGCTCG ACCCT-----CCCG-G-C CAGACCACCT GCAAGGCTG TCCCAAGGA CGATGGTTTC CTAA	1700
rPTH1	AGGGGCTCGA GCACTGAGA CT--GAAAC CCTACAGTC ACTATGGCGG TTCCCAAGGA CGATGGTTTC CTAA	1688
mPTH1	GGGCGCTCGA GCAATTGAGA AC--GAAAC CATAACAGTT ACTATGAGAG TTCCCAAGGA CGATGGTTTC CTAA	1688
hPTH1	AGGGGCTCGA GCACTGAGA CCTGAGAC CAGACCACCT GCAAGGCTG TCCCAAGGA CGATGGTTTC CTAA	1694
dPTH1	GGGCTCCTGC TCGGGCTGG AGGAGGAGGC CTCGGGCTG GAGCGGCCAC CTGCTGCTT SCAGGAGGAG TGGGA	1775
rPTH1	GGGCTCCTGC TCGGGCTGG ATGAGGAGGC CTCGGGCTT GAGCGGCCGC CTGCTGCTT SCAGGAGGAA TGGGA	1763
mPTH1	TGGCTCCTGC TCGGGCTGG ATGAGGAGGC CTCGGGCTT GAGCGGCCAC CTGCTGCTT SCAGGAGGAA TGGGA	1763
hPTH1	GGGCTCCTGC TCGGGCTGG AGGAGGAGGC CTCGGGCTT GAGCGGCCAC CTGCTGCTT SCAGGAGGAG TGGGA	1769
dPTH1	GACAGTCATG TGA	1788
rPTH1	AACAGTCATG TGA	1776
mPTH1	AACAGTCATG TGA	1776
hPTH1	GACAGTCATG TGA	1782

Seq. ID No. 3A dPTH1; Seq. ID No. 3B rPTH1; Seq. ID No. 3C mPTH1 & Seq. ID No. 3D hPTH1

Figure 3

dPTH1	MGAVRIAP	ELALLCCPVLS	SAYALVDADD	VTKEEQIFL	LHRAQAQ	QK	FLKEVLIQ	PA	IMESDKG	MA	SASTSGK	KK	EKASGK	LYPE	SBEDQ	EVPTG	100						
rPTH1	MGAAARIAP	LALLCCPVLS	SAYALVDADD	VFTKEEQIFL	LHRAQAQ	QK	ULKEVLIHTA	AA	NIMESDKG	MT	PASTSGKH	KK	EKASGK	FYPE	SKENKDV	PTG	100						
mPTH1	MGTARIAP	LALLCCPVLS	SAYALVDADD	VFTKEEQIFL	LHRAQAQ	QK	ULKEVLIHTA	AA	NIMESDKG	MT	PASTSGKH	KK	EKASGK	FYPE	SKENKDV	PTG	100						
hPTH1	MGTARIAP	LALLCCPVLS	SAYALVDADD	VTKEEQIFL	LHRAQAQ	QK	FLKEVLIQ	PA	IMESDKG	MA	SASTSGK	KK	EKASGK	LYPE	SBEDQ	EVPTG	100						
dPTH1	SRHGRPCLP	EWCH	ICWPL	GAPGEVAVP	CPDYIYDFNH	KGHAYRRCDR	NGSWB	VP	GH	NRTWANYSEC	MKFL	TNETRE	REVFDRLGMI	YTVGYS	VSLA	200							
rPTH1	SRHGRPCLP	EWCH	ICWPL	GAPGEVAVP	CPDYIYDFNH	KGHAYRRCDR	NGSWB	VP	GH	NRTWANYSEC	UKFM	TNETRE	REVFDRLGMI	YTVGYS	VSLA	200							
mPTH1	SRHGRPCLP	EWCH	ICWPL	GAPGEVAVP	CPDYIYDFNH	KGHAYRRCDR	NGSWB	VP	GH	NRTWANYSEC	UKFM	TNETRE	REVFDRLGMI	YTVGYS	VSLA	200							
hPTH1	SRHGRPCLP	EWCH	ICWPL	GAPGEVAVP	CPDYIYDFNH	KGHAYRRCDR	NGSWB	VP	GH	NRTWANYSEC	MKFL	TNETRE	REVFDRLGMI	YTVGYS	VSLA	200							
dPTH1	SLTVAVLILA	YFRRHLHCTRN	YIHMH	IFLSF	MLRA	NSIFVK	DAVLYSG	ATL	DEAERL	TEEE	UR	IAQ	APPP	PI	TAAA	GYAG	CRVAVTFFLY	FLATNYYWIL	299				
rPTH1	SLTVAVLILA	YFRRHLHCTRN	YIHMH	IFLSF	MLRA	NSIFVK	DAVLYSG	ATL	DEAERL	TEEE	UH	IAQ	PPPP	PA	AAV	GYAG	CRVAVTFFLY	FLATNYYWIL	300				
mPTH1	SLTVAVLILA	YFRRHLHCTRN	YIHMH	IFLSF	MLRA	NSIFVK	DAVLYSG	ATL	DEAERL	TEEE	UH	IAQ	PPPP	PA	AAV	GYAG	CRVAVTFFLY	FLATNYYWIL	300				
hPTH1	SLTVAVLILA	YFRRHLHCTRN	YIHMH	IFLSF	MLRA	NSIFVK	DAVLYSG	ATL	DEAERL	TEEE	UR	IAQ	APPP	PI	TAAA	GYAG	CRVAVTFFLY	FLATNYYWIL	300				
dPTH1	VEGLYLHSLI	FMAFFSEKKY	LWGFT	IFGWL	LPAVFVAVV	SV	RATLANTG	CWDLSSG	KK	WIIQVPILAS	I	VLN	FILFIN	I	MRVLATKLR	ETNAGRCOTR	399						
rPTH1	VEGLYLHSLI	FMAFFSEKKY	LWGFT	IFGWL	LPAVFVAVV	SV	RATLANTG	CWDLSSG	KK	WIIQVPILAS	I	VLN	FILFIN	I	MRVLATKLR	ETNAGRCOTR	400						
mPTH1	VEGLYLHSLI	FMAFFSEKKY	LWGFT	IFGWL	LPAVFVAVV	SV	RATLANTG	CWDLSSG	KK	WIIQVPILAS	I	VLN	FILFIN	I	MRVLATKLR	ETNAGRCOTR	400						
hPTH1	VEGLYLHSLI	FMAFFSEKKY	LWGFT	IFGWL	LPAVFVAVV	SV	RATLANTG	CWDLSSG	KK	WIIQVPILAS	I	VLN	FILFIN	I	MRVLATKLR	ETNAGRCOTR	400						
dPTH1	QQYRKLL	KST	LV	L	MPLEFGVH	YIVFMA	IPYT	EVSGTLWQ	IQ	MHYEMLFNSF	QGFFV	AI	IYC	FCNGEVQAEI	KKSWSRWTLA	LDFKRRKARSG	SSSYSGPNV	499					
rPTH1	QQYRKLL	KST	LV	L	MPLEFGVH	YIVFMA	IPYT	EVSGTLWQ	IQ	MHYEMLFNSF	QGFFV	AI	IYC	FCNGEVQAEI	RKSWSRWTLA	LDFKRRKARSG	SSSYSGPNV	500					
mPTH1	QQYRKLL	KST	LV	L	MPLEFGVH	YIVFMA	IPYT	EVSGTLWQ	IQ	MHYEMLFNSF	QGFFV	AI	IYC	FCNGEVQAEI	RKSWSRWTLA	LDFKRRKARSG	SSSYSGPNV	500					
hPTH1	QQYRKLL	KST	LV	L	MPLEFGVH	YIVFMA	IPYT	EVSGTLWQ	IQ	MHYEMLFNSF	QGFFV	AI	IYC	FCNGEVQAEI	KKSWSRWTLA	LDFKRRKARSG	SSSYSGPNV	500					
dPTH1	SHTSVTNVGP	RVGL	QLPLSP	RL	PLPAAAT	TAT	TINGHP	PP	I	PGH	KPG	ART	L---	PAT	PPA	TAAP	KDDGFL	NGSCSGLDEE	AS	PERPPAL	LQEEWEITVM	595	
rPTH1	SHTSVTNVGP	RVGL	QLPLSP	RL	PLPAT	----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	591
mPTH1	AHTSVTNVGP	RVGL	QLPLSP	RL	PLPAT	----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	591
hPTH1	SHTSVTNVGP	RVGL	QLPLSP	RL	PLPAT	----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	593

Seq. ID No. 2A dPTH1; Seq. ID No. 2B rPTH1; Seq. ID No. 2C mPTH1 and Seq. ID No. 2D hPTH1.

Figure 4

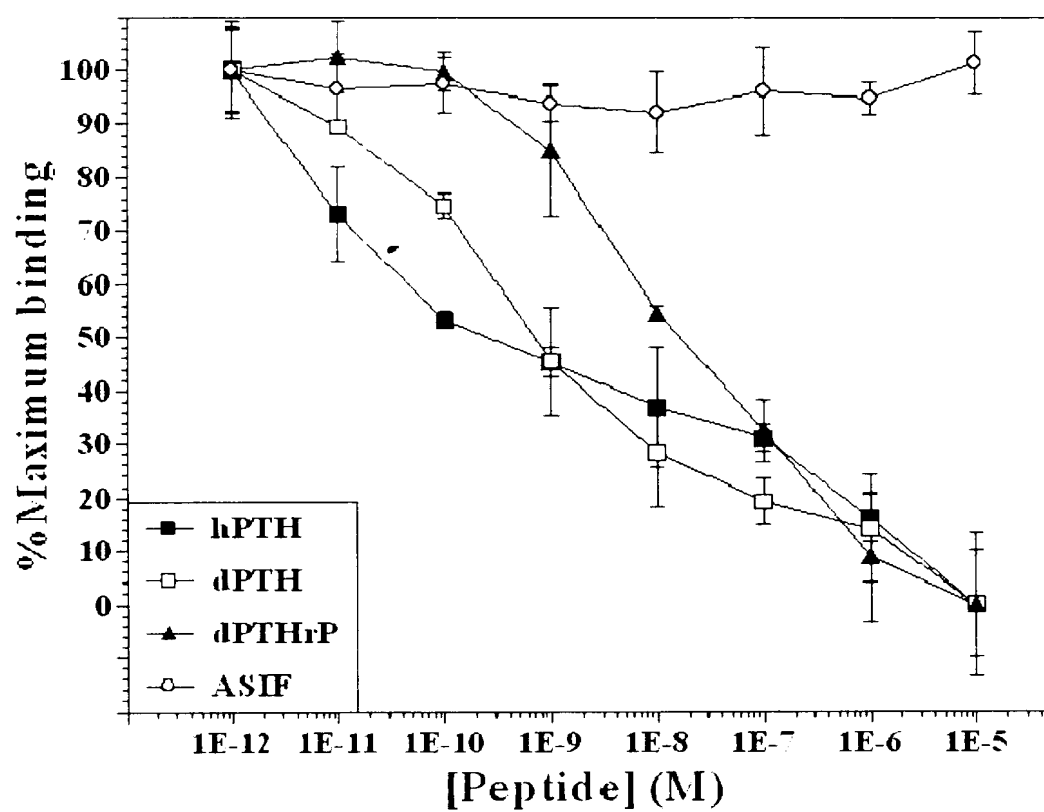


Figure 5

